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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/700,230	11/03/2003	Wen-Shing Wu	SII 003	3114
32047	7590	05/13/2005	EXAMINER	
GROSSMAN, TUCKER, PERREAULT & PFLEGER, PLLC 55 SOUTH COMMERICAL STREET MANCHESTER, NH 03101			PRESTON, ERIK D	
			ART UNIT	PAPER NUMBER
			2834	

DATE MAILED: 05/13/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

24

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/700,230	WU ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Erik D. Preston	2834	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-5 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-5 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date ____. | 6) <input type="checkbox"/> Other: ____.  |

## **DETAILED ACTION**

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hollenbeck et al. (US 2003/0067243) in view of Nitta et al. (US 6265804) in view of the applicant's own admitted prior art in the disclosure.

With respect to claims 1 & 5, Hollenbeck teaches a fan motor (Fig 2) comprising: A base unit (Fig. 2, #36) including a base plate that is formed with a central plate hole, and a shaft tube (Fig. 2, #48) that extends integrally from said base plate at a periphery of said central base plate hole and that is defined with a hole axis (Fig 1, #120); a stator unit (Fig. 1, #22) including a stator core member (Fig. 1, #100) having a metal core body (Paragraph 51) that includes a central hub portion (Fig. 7, #118) and a plurality of core winding spokes (Fig. 7, #114) that extend radially, outwardly, and integrally from said central hub portion and that are angularly spaced apart from each other, said central hub portion being sleeved on said shaft tube and defining a sleeve axis coaxial with said hole axis, said metal core body having opposite core surfaces (Fig. 1, #106,108,110 & 112) along said sleeve axis, each of said core-winding spokes extending in a respective radial direction relative to said sleeve axis and having a peripheral surface that surrounds the respective radial direction, said stator core member further including an

insulated layer (Fig. 2, #92) on said opposite core surfaces of said metal core body and on said peripheral surfaces of said core winding spokes, each of said core-winding spokes having a distal end face remote from said sleeve axis; a plurality of stator coils (Fig. 2, #94) wound around said insulator layer at said core-winding spokes, and a circuit board (Fig. 1, #40) disposed adjacent to one of said opposite core surfaces of said metal core body and coupled electrically to said stator coils (Paragraph 50); and a rotor unit (Fig. 13, #200) including a drive shaft (Fig. 2, #32) having a base connecting portion extending into said shaft hole and mounted rotatably inside shaft tube of said base unit, and a blade connecting portion extending outwardly of said shaft tube, a sensing ring (Fig. 13, #206) having an inner ring circumference that confines a ring hole coaxial with said hole and sleeve axes, said ring hole having a size sufficient to receive said stator unit therein such that said inner ring surface of said sensing ring forms an annular clearance with said end faces of said core-winding spokes, and a cover member (Fig. 13, #202) having a cover plate portion and a peripheral wall portion (Fig. 13, #204) being secured to said sensing ring; but Hollenbeck doesn't teach the insulator layer being a coating, or the blade connecting portion of the shaft extending through the cover plate portion. However, Nitta teaches an insulating coating (Fig. 10, #44) that can be used to insulate a stator core (Col. 9, Lines 20 & 21), and the applicant discloses a shaft with a blade connecting portion extending through a cover plate in Figure 1 of the submitted drawings. It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the fan motor of Hollenbeck in view of the stator as taught by Nitta because it provides a way to reduce eddy currents that flow in the

direction of the stacked steel sheets and causing iron losses (Nitta, Col. 1, Lines 42-49), and to modify the fan blades of Hollenbeck in view of the fan blades of the applicant's own admitted prior art because by keeping them separate from the housing the fan blades could then be easily removed and replaced from the motor without requiring extensive disassembly in the event that they became damaged or needed cleaning.

With respect to claim 2, Hollenbeck in view of Nitta in view of applicant's own admitted prior art in the disclosure teaches the fan motor of claim 1, and Hollenbeck teaches that the base unit further includes a bearing unit (Fig. 2, #50) for mounting rotatably said base connecting portion of said drive shaft in said shaft tube.

With respect to claim 3, Hollenbeck in view of Nitta in view of applicant's own admitted prior art in the disclosure teaches the fan motor of claim 1, and Nitta teaches a metal core body that has twelve core winding spokes (Fig. 9), and that four sets of three-phase stator coils can be wound thereon (Col. 7, Lines 17-41).

With respect to claim 4, Hollenbeck in view of Nitta in view of applicant's own admitted prior art in the disclosure teaches the fan motor of claim 1, and Nitta teaches a metal core body made of silicon steel (Col. 1, Lines 26-28).

### ***Conclusion***

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. US 5925948, US 6749144, US 2003/0164653, US 2005/0073210 & US 2005/0082919.

Art Unit: 2834


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Erik D. Preston whose telephone number is (571)272-8393. The examiner can normally be reached on Monday through Friday 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren Schuberg can be reached on (571)272-2044. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



05/10/2005



DARREN SCHUBERG  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2800